国际环境译丛·第一辑



哥伦布大交换

——1492年以后的生物影响和文化冲击

【美】艾尔弗雷德 W.克罗斯比 著

郑明萱 译

THE COLUMBIAN EXCHANGE

Biological and Cultural Consequences of 1492

30周年版

中国环境科学出版社

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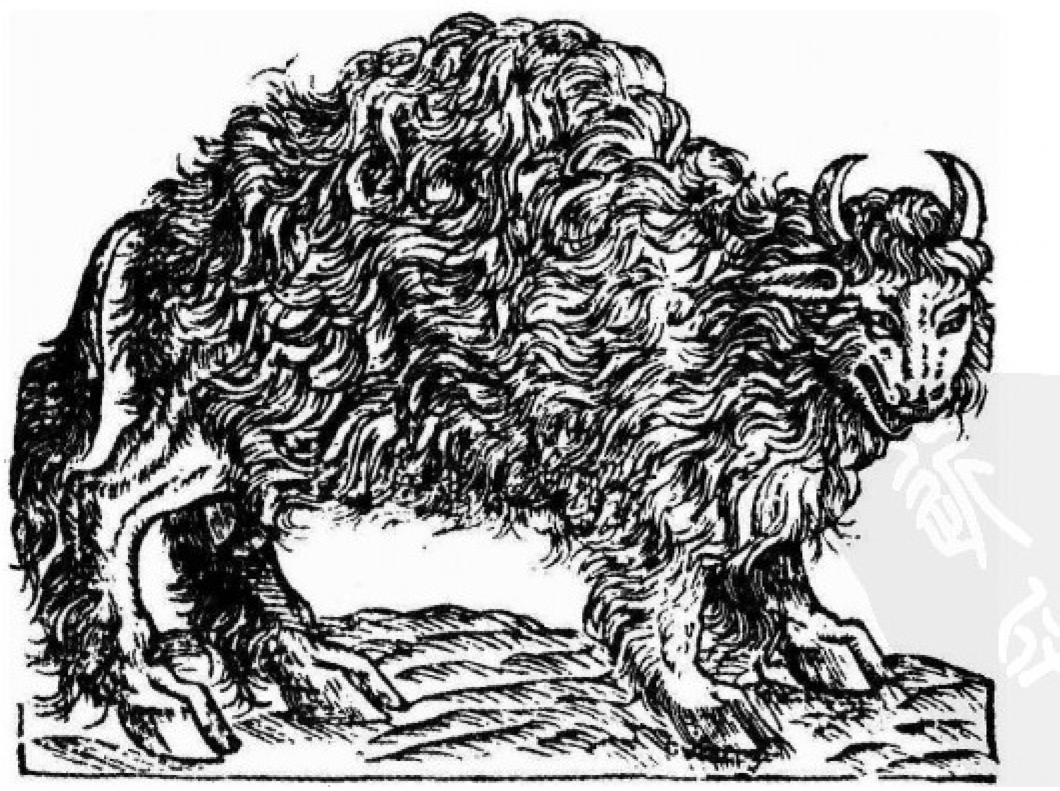


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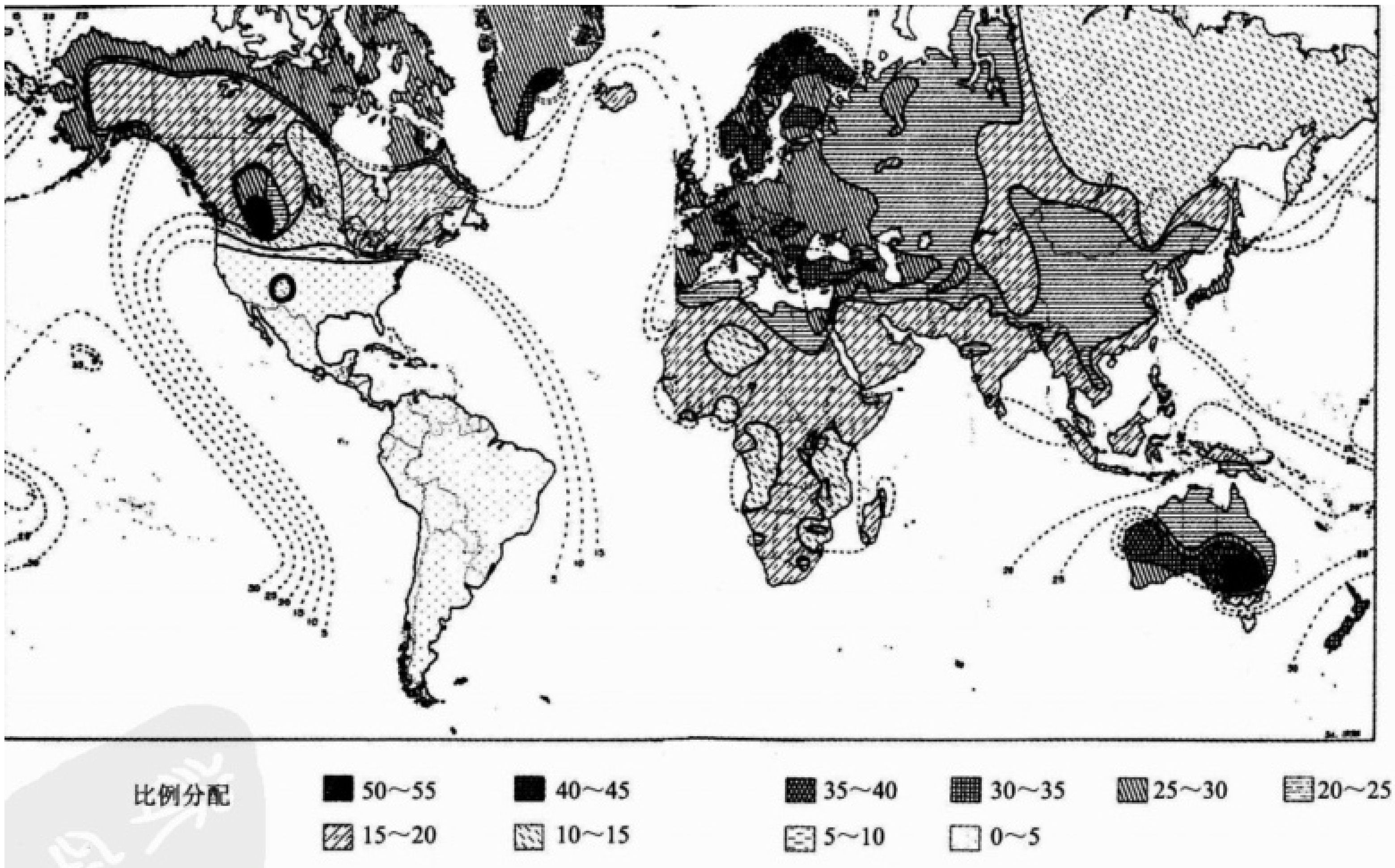


图 1-3　全球原住民人口 A 型血型基因分布图

Courtesy Blackwell Scientific Publications LTD.

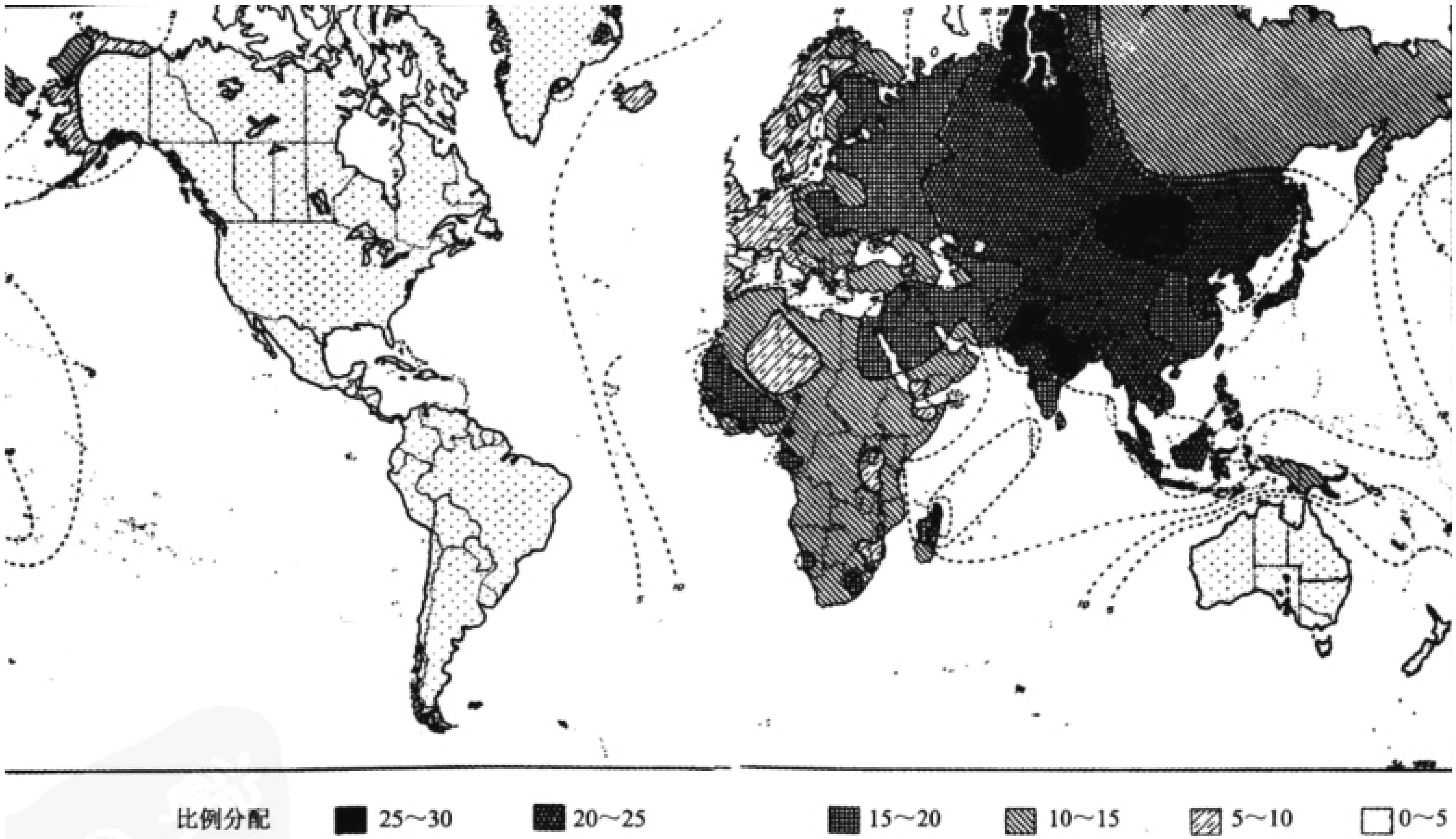


图 1-4　全球原住民人口 B 型血型基因分布图

Courtesy Blackwell Scientific Publications LTD.

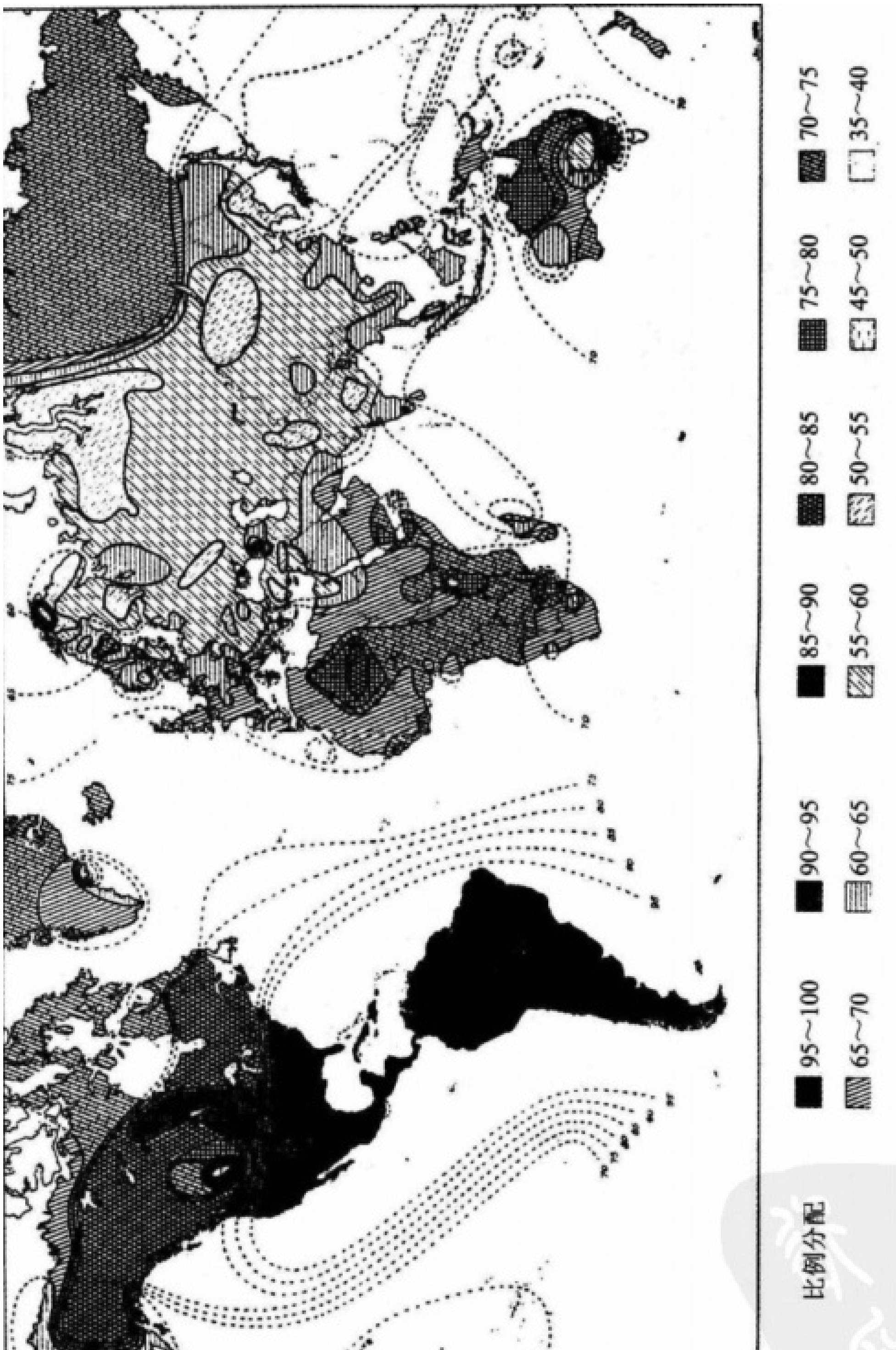


图 1-5 全球原住民人口 O 型血型基因分布图
Courtesy Blackwell Scientific Publications LTD.

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[illegible]3[illegible]16[illegible]“[illegible]”[illegible]

[illegible]1498[illegible]“[illegible]”[illegible]Alonzo de Zuazo) 1518[illegible]2- 3[illegible]16[illegible]“boucan”[illegible]17[illegible](buccaneers)[illegible]

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[illegible]Margarita)[illegible]——[illegible]——[illegible]

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[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]20[illegible]

[illegible]1542[illegible]Cabeza deVaca)[illegible]Irala)[illegible]

[illegible]San Gabriel)[illegible]Martta Garci)[illegible]

1550 [illegible] Sable Island) [illegible] 30 [illegible] “[illegible]” [illegible] 1609 [illegible] 10 [illegible] Olive Blossom) [illegible] Barbados) [illegible] 17 [illegible]

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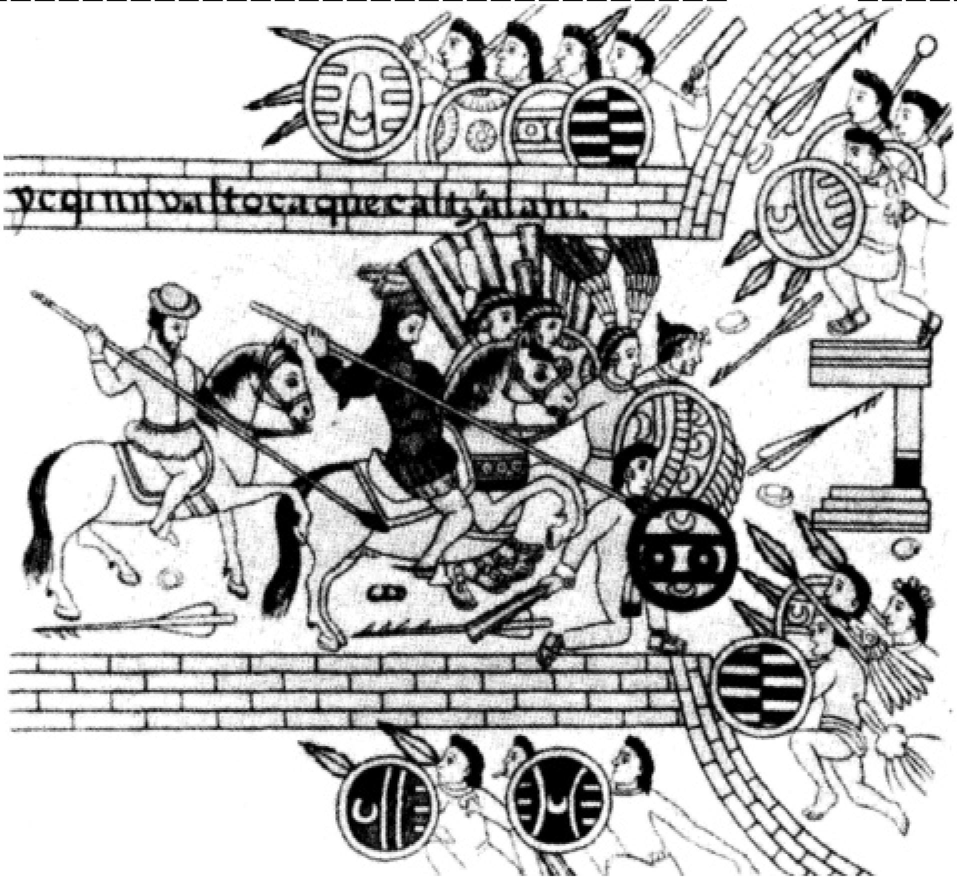
[illegible] “[illegible]” [illegible] Sacho Panza) [illegible] … [illegible] “caballero” [illegible] Pyrenees) [illegible] “chevalier” [illegible]

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3-1 16 Lienzo de Tlaxcala) ——

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[illegible]llanos)[illegible]prairies)[illegible](pampas)[illegible]

[illegible]1531 [illegible]200[illegible]1550[illegible]Queretaro)[illegible]San Juan del Rio)[illegible]Durango)[illegible]——[illegible]mestizo)[illegible]——[illegible]——[illegible]

[illegible]1777[illegible]Fray Morfi)[illegible]Rio Grande)[illegible]Nueces River)[illegible]“[illegible]”[illegible]-[illegible]——[illegible]——[illegible]mustang ([illegible]broncho ([illegible]lasso ([illegible]rodeo ([illegible]chaps ([illegible]——[illegible]lariat ([illegible] buckaroo ([illegible]

[illegible]16[illegible]

[illegible]1532[illegible](Cuzco)[illegible]

[illegible]17[illegible]

[illegible]

[illegible]16[illegible]1535[illegible]Pedro de Mendoza)[illegible]

[illegible]1580[illegible]“[illegible]”[illegible]17[illegible]“[illegible]……”[illegible]“[illegible]”[illegible]

[illegible]

[illegible]17[illegible]

[illegible]1550[illegible]“[illegible]1/4[illegible]5[illegible]‘[illegible]’[illegible]5[illegible]2[illegible]6[illegible]……” [illegible]Zacutecas)[illegible]

[illegible]1587[illegible]10 [illegible]“[illegible]”[illegible]17[illegible]30[illegible]

[illegible]——'[illegible]——[illegible]“[illegible]”[illegible]——[illegible]——[illegible]

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[illegible]1521[illegible]10[illegible]1532—1538[illegible] 75%[illegible]1568[illegible]2 000[illegible]VeraCruz)[illegible]“[illegible]”

[illegible]16[illegible]1579[illegible]15[illegible]2[illegible]1586[illegible] 3.3[illegible]4.2[illegible]1594[illegible]15[illegible]16[illegible]Samuel deChamplain)[illegible]“[illegible]”

[illegible]1587 [illegible]64 350[illegible]

[illegible]18 [illegible]19[illegible])[illegible]

[illegible] 600 [illegible] 200 [illegible] “[illegible]” [illegible] 1548 [illegible] 1 [illegible] 1600 [illegible] 14 [illegible] “[illegible]” [illegible]

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[illegible] 16 [illegible] Martin Alfoso de Sousa) [illegible] 1531—1533 [illegible]

[illegible] 1590 [illegible] Bahia) [illegible] Sergipe) [illegible]

[illegible] Sao Francisco River) [illegible]

[illegible] 16 [illegible] 1600 [illegible] 500 [illegible]

16 [illegible] 1539 [illegible]

[illegible]1614[illegible]39 250[illegible]13 500[illegible]

[illegible]1593 [illegible]Corrientes)[illegible]Santa Cruz)[illegible]“[illegible]80[illegible]” 1619[illegible]Gondra)[illegible]8[illegible]

[illegible]Patagonia)[illegible]17[illegible]18[illegible]

[illegible]1493[illegible]

[illegible]

[illegible]——[illegible]——[illegible]1571[illegible]80[illegible]17[illegible]

16[illegible]1521 [illegible]“[illegible]”[illegible]1535—1549[illegible]Merinos)[illegible]——[illegible]

[illegible]1582[illegible]San Juan del losRios)[illegible]20[illegible]“[illegible]4[illegible]”[illegible]1579[illegible]9[illegible]“[illegible]”[illegible](Chapala)[illegible]Michoacdn)[illegible]5[illegible]20[illegible]

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[illegible]3[illegible]16[illegible]“[illegible]7[illegible]10[illegible]”

[illegible]16[illegible]——[illegible]——[illegible]1614[illegible]623 825[illegible] 223 944[illegible]1600[illegible]

[illegible]（Atacama)[illegible]

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[illegible] Lake Maricaibo) [illegible] Goajiro) [illegible] 1550 [illegible] 1570 [illegible] —— [illegible] —— [illegible] (Riohacha) [illegible] 20 [illegible] 1.8 [illegible] 10 [illegible] 20 [illegible] 2 [illegible] 3 [illegible] Masai) [illegible]

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[illegible]Alberta)[illegible]——[illegible] 1700[illegible]1750[illegible]Pehuenches)[illegible]

[illegible]18[illegible]——[illegible](Blackfoot)[illegible]Arapaho)[illegible]Cheyenne)[illegible]Crow)[illegible]Comanche)[illegible]19[illegible]George Catlin)[illegible]

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[illegible] 1700[illegible]Platte River)[illegible]1751[illegible]1784[illegible]Saskatchewan River)[illegible]——[illegible]——[illegible]19[illegible]

[illegible]17[illegible]

[illegible]17[illegible]Abipon)[illegible]Mocovi)[illegible](Guaicuru)[illegible]

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[illegible]——[illegible]——[illegible]1492[illegible]1600[illegible]

[illegible]18[illegible]

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[illegible]16[illegible]17[illegible]--[illegible]17[illegible]São Francisco River)[illegible] 1700[illegible]1 500[illegible]

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[illegible]“[illegible]”[illegible]16[illegible]1490[illegible]1500[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

[illegible]“[illegible]”[illegible]1492[illegible]1493[illegible]1494[illegible]1495[illegible]“[illegible]”[illegible]

[illegible]1493[illegible]1494[illegible]——[illegible]400[illegible]

[illegible]“[illegible]”[illegible]Ferdinand)[illegible]1498[illegible]“[illegible]160[illegible]”[illegible]“[illegible]”[illegible] 1498[illegible]

[illegible]“[illegible]Fray Ramon)[illegible]”[illegible]1490[illegible]“[illegible]”[illegible]Achilles)[illegible]Beowulf)[illegible]

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[illegible]

[illegible]1493[illegible]

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[illegible]

[illegible]1490[illegible]1494 [illegible]5[illegible]

[illegible]——[illegible]“[illegible]3[illegible]2[illegible]”

[illegible]1495[illegible]11[illegible]

[illegible]1495 [illegible](Maximilian)[illegible]Worms)[illegible]“[illegible]”[illegible]1496[illegible]1499[illegible]

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[illegible]“[illegible]”[illegible]1498[illegible]

[illegible]1498[illegible]1505[illegible]10[illegible]

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1540-1560[illegible]“[illegible]”[illegible]

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[illegible]1530[illegible]——[illegible]1932[illegible](British Pharmacopoeia)[illegible]——[illegible]

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[illegible]16[illegible]“[illegible]”

16[illegible](De Morbo Gallico) (1564[illegible]

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[illegible]1000[illegible]300[illegible]4[illegible]1650—1850[illegible]20[illegible]300[illegible]1)[illegible]

表 1　世界人口统计（单位：百万[1]）

年份	1650	1750	1800	1850	1900	1950
非洲	100	95	90	95	120	198
亚洲（苏联*除外）	327	475	597	741	915	1 320
拉丁美洲	12	11	19	33	63	162
北美洲	1	1	6	26	81	168
欧洲与苏联	103	144	192	274	423	593
大洋洲	2	2	2	2	6	13
总计	545	728	906	1 171	1 608	2 454

[illegible]1492[illegible]

[illegible]“[illegible]”[illegible]15[illegible]

[illegible]“[illegible]”[illegible]

[illegible]300[illegible]1650[illegible]19-

20[illegible]——[illegible]——[illegible]

[illegible]300[illegible]Thomas Malthas)[illegible]150[illegible]

1800[illegible]18[illegible]“[illegible]”[illegible]

[illegible]

[illegible]

[illegible]——[illegible]——[illegible]

[illegible]——[illegible]——[illegible]16[illegible]1492[illegible]

[illegible]“[illegible]”[illegible]
[illegible]1492[illegible]

[illegible]Nikolai Ivanovich Vavilov)[illegible]640[illegible]500[illegible]100[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]——[illegible]

[illegible]5[illegible] 400[illegible]5[illegible]

[illegible]——[illegible]20[illegible]

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5-1 16 Copyright 1954 by The Macmillan Company

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[illegible]Benin——[illegible]——[illegible]

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[illegible]5-12[illegible]18[illegible]2-6 [illegible]1-5[illegible]400[illegible]

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[illegible]7 000[illegible]5[illegible]

[illegible]20-200[illegible]30°[illegible]30°[illegible]

[illegible]2[illegible]

表 2　新旧世界主食作物种类[19]（单位：百万卡路里/公顷）

美洲主要作物		旧世界主要作物	
玉米	7.3	稻米	7.3
马铃薯	7.5	小麦	4.2
甘薯、山药	7.1	大麦	5.1
树薯	9.9	燕麦	5.5

• 粮食与农业组织的文件将甘薯和山药合为一组。但前者的卡路里值比后者高，栽植也更普遍，所以我觉得可以纳入这张统计表内。



[illegible]5-2 16[illegible]

[illegible]16[illegible]18[illegible]1542[illegible]Tragus)[illegible]Leonard Fuchs)[illegible]1572[illegible]“[illegible]”[illegible]17[illegible]1678[illegible]·[illegible]“[illegible]……[illegible]” [illegible]18[illegible]“[illegible]”

[illegible]1550[illegible]18[illegible] 1597[illegible]

[illegible]

[illegible]



[illegible]5-3[illegible]1597[illegible]

[illegible]400[illegible]16[illegible]17[illegible]·[illegible]

1670 □□□□□□□□□□“□□□□□□□□□□□□□‘□□□□’□□□□□□□□
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19 Alexander von Humbolt)
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1839 1900
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19[illegible]70[illegible]1882[illegible]670[illegible] 1907[illegible]1120[illegible]1935[illegible]1 600[illegible]1964 [illegible]2 890[illegible]

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[illegible]1815[illegible]460[illegible]1890[illegible]2 400[illegible]1960[illegible]6 250 [illegible]150[illegible]

[illegible]

[illegible]17[illegible]1699[illegible]1789[illegible]3 600[illegible]([illegible])[illegible]“[illegible]”[illegible]1800[illegible]

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[illegible]1931-1937[illegible]1 800[illegible]

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1948—1952[illegible]120[illegible]1800[illegible]

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[illegible]3[illegible]1/3[illegible]

表3　1963年世界最大作物（单位：百万吨[82]）

马铃薯	277.6
稻米	257.4
小麦	250.3
玉米	231.8
大麦*	102.9

*排名在大麦之后的每项作物，产量锐减。

[illegible]“[illegible]”[illegible]



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[illegible]

[illegible]1871—1947[illegible]7 000-9 000[illegible]150[illegible]

[illegible]100 [illegible]19[illegible]1929[illegible]——[illegible]——[illegible]

[illegible]“[illegible]”[illegible]Oroya fever)[illegible]“[illegible]”[illegible]“[illegible]”[illegible]——[illegible]

[illegible]——[illegible]——[illegible]400[illegible]1872[illegible]

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[illegible] 20[illegible]1950[illegible]1964[illegible]

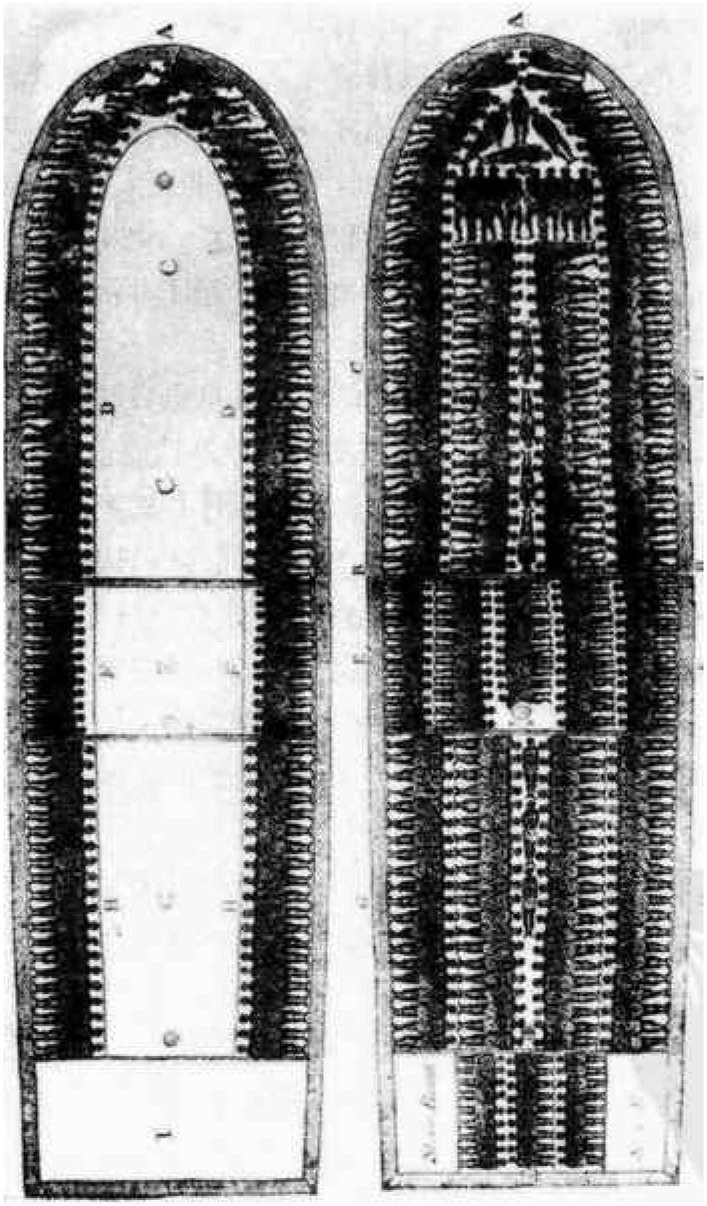
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[illegible]1877[illegible]20[illegible]——[illegible]——[illegible])[illegible]——[illegible] bronco ([illegible]lariat ([illegible])[illegible]chaps ([illegible])[illegible]buckaroo ([illegible])[illegible]arroyo ([illegible])[illegible]baranca ([illegible])[illegible]

[illegible]1905[illegible]1917[illegible]

[illegible]70[illegible]1860[illegible]1920[illegible]1955[illegible]

[illegible]19[illegible]“[illegible]”[illegible]1950[illegible]“[illegible]”[illegible]——[illegible]——[illegible]2-3[illegible]——[illegible]——[illegible]



[illegible]6-1[illegible]1791[illegible])

[illegible]16[illegible]17[illegible]18[illegible]38%[illegible]42%[illegible]800[illegible]-1050 [illegible]

[illegible]1850[illegible]1950[illegible]4 700[illegible]1.98[illegible]

[illegible]1509-1740[illegible]15[illegible]17[illegible]25[illegible]18[illegible]150[illegible]1800[illegible]20[illegible]

19[illegible]1830[illegible]——[illegible]1851—1960[illegible]6 100[illegible]1924[illegible]4 500[illegible]3 400[illegible]1850- 1940[illegible]700[illegible]1821—1945[illegible] 450[illegible]



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表 4　洲际移民统计（选择性列举国家、时期 [17]）

移出		
移出国	时期	人数
不列颠群岛	1846—1932	18 020 000
意大利	1846—1932	10 092 000
奥地利与匈牙利	1846—1932	5 196 000
德国	1846—1932	4 889 000
西班牙	1846—1932	4 653 000
俄罗斯	1846—1924	2 253 000
葡萄牙	1846—1932	1 805 000
瑞典	1846—1932	1 203 000
挪威	1846—1932	854 000
波兰	1920—1932	642 000
法国	1846—1932	519 000
丹麦	1846—1932	387 000
芬兰	1871—1932	371 000
瑞士	1846—1932	332 000
荷兰	1846—1932	224 000
比利时	1846—1932	193 000
合计		51 633 000
移入		
移入国	时期	人数
美国	1821—1932	34 244 000
阿根廷	1856—1932	6 405 000
加拿大	1821—1932	5 206 000
巴西	1821—1932	4 431 000
澳大利亚	1861—1932	2 913 000
英属西印度群岛	1836—1932	1 587 000
古巴	1901—1932	857 000
南非	1881—1932	852 000
乌拉圭	1836—1932	713 000
新西兰	1851—1932	594 000
墨西哥	1911—1932	226 000
合计		58 020 000

1930□□□□□□□□□□□□□□□□□□□□□□□□2 000□□□□□□□1 400□□□□□□1 200□□□□□□□□□□□□□□)□500 □□□□□□□□□□□□□□□□□□□1946—1957□□□□□□□□□□□□□ 540□□□□□□□□440□□□

[illegible] 1950[illegible]85%[illegible]42%[illegible]46%[illegible]96%[illegible]99%19[illegible]

[illegible]

[illegible]200[illegible]1750 [illegible]19%-20%[illegible]1850[illegible]23%[illegible]1960[illegible]21%[illegible]1750[illegible]22%[illegible]1950[illegible]36%[illegible]

[illegible]5 000[illegible]

[illegible]1714—1773[illegible]101 264 818[illegible]20.5%[illegible]20 [illegible]

[illegible] I860[illegible]17%[illegible]1960[illegible]21%[illegible]I860[illegible]1960 [illegible]11%[illegible]6%[illegible]

[illegible]

[illegible]——[illegible]

[illegible]“[illegible]”[illegible]“[illegible]”[illegible]“[illegible]”[illegible]

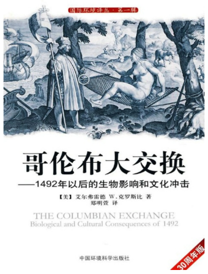
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ISBN[illegible]9787511101761
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